

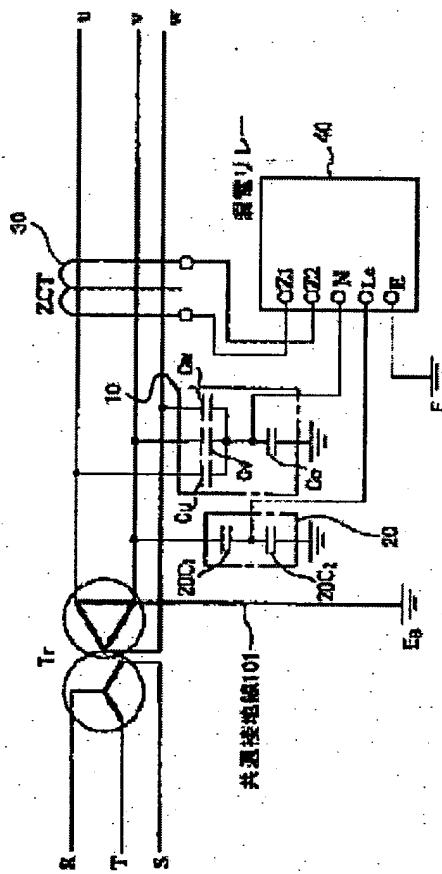
LEAKAGE DETECTION/PROTECTION METHOD AND APPARATUS FOR COMMONLY GROUNDED CIRCUIT

Patent number: JP2002027661
Publication date: 2002-01-25
Inventor: FUJII MASAHIKO
Applicant: HIKARI SHOKO KK
Classification:
- **International:** H02H3/347; G01R31/02; H01H83/02; H02H3/34;
H02H3/38
- **European:**
Application number: JP20000209270 20000711
Priority number(s): JP20000209270 20000711

Abstract of JP2002027661

PROBLEM TO BE SOLVED: To prevent unwanted operation of a leakage relay which occurs sometimes in the other transforming chamber, if a grounding fault occurs in the secondary side of a transformer in one transforming chamber, in the case where the secondary sides of the transformers are installed in a plurality of transforming chambers, such as a high-rise building.

SOLUTION: A neutral point-to-ground voltage detecting means 10 for detecting a voltage V_o across the neutral point and the ground, a means 20 for detecting a class-B grounding resistor voltage V_e , a means 30 for detecting a zero-phase current I_o and a leakage relay 40 are provided. A neutral point-to-ground voltage V_n under non fault condition is obtained with the leakage relay from V_o and V_e values, when a grounding fault is generated for calculating the value of $I_o / (V_o + V_e)$. When this value is less than the setting level, operation is stopped so as to prevent an unwanted operation.



Data supplied from the esp@cenet database - Worldwide